

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please cancel claims 2-27.

1. (Original) A micro fluid biomolecule separation system comprising a primary separating path and one or more secondary process paths, said primary separating path being in the form of a separating coating carried on a substrate, wherein said separating coating comprising one or more separating layers, at least one separating layer consisting of or comprises one or more pH active components comprising pH active groups defined as chemical groups that are capable of being protonated or deprotonated in aqueous environments, said fluid biomolecule separation system comprises means for applying a voltage over the primary separating path, the or each secondary process path(s) comprising one or more inlets in liquid communication with the primary separating path, said one or more inlets being placed along or extends along the primary separating path, whereby biomolecules separated along the primary path is capable of being introduced into the secondary process path(s) for being processed further.

2-27. Cancelled.